



US 20020052216A1

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0052216 A1**
Song (43) **Pub. Date: May 2, 2002**(54) **WIRELESS TELEPHONE WITH ACOUSTIC
SPEAKER COUPLING****Publication Classification**(76) **Inventor: Chang June Song, Richmond (CA)**(51) **Int. Cl.⁷ H04M 1/00**(52) **U.S. Cl. 455/550; 455/569; 455/575**

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ABSTRACT(21) **Appl. No.: 09/827,881**(22) **Filed: Apr. 4, 2001****Related U.S. Application Data**(63) **Non-provisional of provisional application No.
60/244,960, filed on Oct. 30, 2000.**

A wireless phone is constructed so that the speaker assembly is located at a location remote from the ear of a user. An acoustic tube has an inlet that connects to the speaker and an outlet that is positioned proximate an opening that operates as the earpiece of the telephone. Aural energy produced by the speaker assembly is captured by the inlet, communicated by the tube to the outlet and passed to the opening for a user to perceive.

